

ABSTRACT

The present invention is to provide a reflector which has achieved a high reflectance by using a metal layer mainly composed of a metal selected from silver or aluminum as a reflector, and to provide a reflector, a reflector under a light-guiding plate, a backlight device and a liquid crystal display using the same reflector. Furthermore, an object of the present invention is to provide a method for producing the reflector.

According to the present invention, the reflector having a structure in which a high refractive index layer, a low refractive index layer, and a metal layer mainly composed of silver or aluminum are sequentially arranged on a polymer base can realize a higher reflectance than the conventional reflective bodies by using a polymer base wherein the atoms measured by XPS which constitute the surface of the polymer base are substantially identical with those constituting the inside of the polymer base. Furthermore, such a reflector can be used for a reflector, a reflector under a light-guiding plate, a backlight device and a liquid crystal display.

The polymer base can be obtained preferably by subjecting a polymer base and a liquid to coming into contact with each other.

The reflector of the present invention has higher reflectance than a silver single-layered reflector or an aluminum single-layered reflector. For this reason, when the reflector of the present invention is used, a reflector or a reflector under a light-guiding plate having a high reflectance can be obtained. Furthermore, using the reflector of the present invention, high luminance and high efficiency in a backlight device or a liquid crystal display can be realized.